

08-06-01

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08/03/01
j1036 U.S. PTO

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
PATENT EXAMINING OPERATION

Attorney Docket No.: 1043.002

Box Patent Application
Commissioner for Patents
Washington, D.C. 20231

j1036 U.S. PTO
09/22/06
08/03/01

NEW APPLICATION TRANSMITTAL

Transmitted herewith for filing is the patent application of:

Inventors: Azzedine Touzni, Raúl A. Casas, Thomas J. Endres, Stephen L. Biracree,
Christopher H. Strolle, and Samir N. Hulyalkar

For: Carrier Phase Estimation Based On Single-Axis Constant Modulus
Cost Criterion And Bussgang Criteria

ENCLOSED ARE:

- ☐ Check in the amount of \$
- ☒ New Application Transmittal (orig. & 2 copies)
- ☒ Unexecuted Combined Declaration and Power of Attorney (3 pages)
- ☐ Recordation Form (PTO-1595) Cover Sheet (1 page)
- ☐ Assignment (pages)
- ☒ Request for Non-Publication and Certification Under
35 U.S.C. 122(b)(2)(B)(i)(1 page)
- ☐ Certified Copy of Priority Document (pages)
- ☒ Patent Application with Informal Drawings (1 Cover Page; 24 Pages of Specification;
7 Pages of Claims; 1 Page of Abstract; 6 Sheet of Drawings)
- ☐ Information Disclosure Statement.

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Certification Under 37 CFR 1.10

"Express Mail" Mailing Label No. EL682058955US

Date of Deposit August 3, 2001.

I hereby certify that this paper or fee is being deposited with the United States Postal Service's
"Express Mail Post Office To Addressee" service under 37 CFR 1.10 on the date indicated above and is
addressed to the Commissioner of Patents and Trademarks, Washington, D.C. 20231.

Mary E. Caniz
(Name of person mailing)

Mary E. Caniz
(Signature of person mailing)

09922006 "080301"

BENEFIT OF PRIOR FOREIGN APPLICATION (35 USC 119):

- ☐ Not Applicable.
- ☐ In accordance with 35 U.S.C. § 119, applicants hereby claims the benefit of the filing date of a prior foreign application, namely:
- _____ Application No. _____ Filed: _____
- ☐ In support of this claim, a certified copy of the aforementioned application is submitted herewith.

BENEFIT OF PRIOR U.S. PROVISIONAL APPLICATION (35 USC 119(e)(i))

- ☐ Not Applicable.
- ☒ In accordance with 35 U.S.C. § 119(e)(i), applicants hereby claim the benefit of the filing date of a prior U.S. provisional application, namely:

U.S. Application No. 60/248,941 Filed: 11/15/00

BENEFIT OF PRIOR U.S. APPLICATION (35 USC 120):

- ☐ Not Applicable.
- ☐ In accordance with 35 U.S.C. § 120, applicants hereby claims the benefit of the filing date of a prior U.S. application, namely:

U.S. Application No. 08/ Filed: _____

ASSIGNMENT:

- ☐ An Assignment of the invention to NxtWave Communications, a Pennsylvania corporation having a mailing address of One Summit Square, Route 413 & Doublewoods Road, Langhorne, Pennsylvania 19047, is enclosed.

INVENTORSHIP STATEMENT:

- ☒ The inventorship for all the claims in this application is the same.
- ☐ The inventorship for all the claims in this application is not the same. An explanation, including the ownership of the various claims at the time the last claimed invention was made:
- ☐ is submitted.
- ☐ will be submitted, if necessary under 37 CFR 1.110.

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2117	2118	2119	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	2216	2217	2218	2219	2220	2221	2222	2223	2224	2225	2226	2227	2228	2229	2230	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	2261	2262	2263	2264	2265	2266	2267	2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280	2281	2282	2283	2284	2285	2286	2287	2288	2289	2290	2291	2292	2293	2294	2295	2296	2297	2298	2299	2300	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2313	2314	2315	2316	2317	2318	2319	2320	2321	2322	2323	2324	2325	2326	2327	2328	2329	2330	2331	2332	2333	2334	2335	2336	2337	2338	2339	2340	2341	2342	2343	2344	2345	2346	2347	2348	2349	2350	2351	2352	2353	2354	2355	2356	2357	2358	2359	2360	2361	2362	2363	2364	2365	2366	2367	2368	2369	2370	2371	2372	2373	2374	2375	2376	2377	2378	2379	2380	2381	2382	2383	2384	2385	2386	2387	2388	2389	2390	2391	2392	2393	2394	2395	2396	2397	2398	2399	2400	2401	2402	2403	2404	2405	2406	2407	2408	2409	2410	2411	2412	2413	2414	2415	2416	2417	2418	2419	2420	2421	2422	2423	2424	2425	2426	2427	2428	2429	2430	2431	2432	2433	2434	2435	2436	2437	2438	2439	2440	2441	2442	2
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☒ Applicant claims small entity status under 37 CFR 1.27.

NONPUBLICATION REQUEST UNDER 35 U.S.C. 122(b)(2)(B)(i)

[X] I hereby certify that the invention disclosed in the attached application **has not and is not currently expected to be** the subject of an application filed in another country, or under a multilateral agreement, that requires publication at eighteen months after filing.

☒ I hereby request that the attached application **not be** published under 35 U.S.C. 122(b).

CLAIMS AS FILED:

<u>CLAIMS AS FILED:</u>	No. <u>Filed</u>	<u>Basic</u>	No. <u>Extra</u>	Small <u>Entity</u>	Large <u>Entity</u>	Small Entity Basic Fee <u>\$ 355</u>	Large Entity Basic Fee <u>\$ 710</u>
Total Claims:	<u>42-</u>	<u>20 =</u>	<u>22 x</u>	<u>\$ 9</u>	<u>\$ 18 =</u>	<u>\$ 198</u>	<u>\$ 0</u>
Independent Claims:	<u>4-</u>	<u>3 =</u>	<u>1 x</u>	<u>\$ 40</u>	<u>\$ 80 =</u>	<u>\$ 40</u>	<u>\$ 0</u>
Multiple dependent claims:				<u>\$135</u>	<u>\$270 =</u>	<u>\$ _____</u>	<u>\$ 0</u>
Filing Fee Calculation:						<u>\$ 593</u>	<u>\$ _____</u>

FEE PAYMENT BEING MADE AT THIS TIME:

[]	Basic Filing Fees	\$
[]	Assignment	\$
	TOTAL FEES ENCLOSED:	\$

METHOD OF PAYMENT OF FEES:

[] A check in the amount of \$__ to cover the filing fee.

[] Please charge my Deposit Account No. 50-0782 in the amount of \$_____. A triplicate copy of this sheet is enclosed.


AUTHORIZATION TO CHARGE ADDITIONAL FEES:

The Commissioner is hereby authorized to charge payment of the following fees associated with this communication or credit any overpayment to Deposit Account 50-0782. Two copies of this transmittal are enclosed.

[X] Any additional filing fees required under 37 CFR §1.16 and 37 CFR§1.17.

Steve Mendelsohn
Mendelsohn & Associates, P.C.
1515 Market Street, Suite 715
Philadelphia, Pennsylvania 19102

Date: August 3, 2001
Customer No. 22186
Mendelsohn & Associates, P.C.
1515 Market Street, Suite 715
Philadelphia, Pennsylvania 19102


 Ian M. Hughes
 Registration No. 41,083
 Attorney for Applicant
 (215) 557-6659

1. General information		2. Demographic data		3. Clinical data		4. Laboratory data		5. Treatment data		6. Outcome data	
Study ID	Study Name	Age (years)	Sex	Weight (kg)	Height (cm)	BMI (kg/m ²)	Heart Rate (b/min)	Blood Pressure (mmHg)	Temperature (°C)	Respiratory Rate (b/min)	Oxygen Saturation (%)
001	Study A	25	Male	70	175	22.6	72	120/80	36.5	18	98
002	Study B	30	Female	65	160	25.6	68	110/70	36.8	16	97
003	Study C	35	Male	80	180	24.7	75	130/90	37.0	20	99
004	Study D	40	Female	75	170	25.9	70	125/85	37.2	19	98
005	Study E	45	Male	90	190	25.0	78	140/100	37.5	22	99
006	Study F	50	Female	85	185	24.3	74	135/95	37.8	21	98
007	Study G	55	Male	95	200	23.8	80	150/110	38.0	24	99
008	Study H	60	Female	90	195	23.2	76	145/105	38.2	23	98
009	Study I	65	Male	100	210	22.7	82	160/120	38.5	26	99
010	Study J	70	Female	95	205	22.9	79	155/115	38.8	25	98



22186

PATENT TRADEMARK OFFICE

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Re: Attorney Docket No. 1043.002

In re application of: Azzedine Touzni, Raúl A. Casas, Thomas J. Endres,
Stephen L. Biracree, Christopher H. Strolle and Samir N. Hulyalkar

Serial No.: Not yet assignedGroup No.: Not yet knownFiled: Not yet assignedExaminer: Not yet known

For: Carrier Phase Estimation Based On Single-Axis Constant Modulus
Cost Criterion and Busgang Criteria

REQUEST AND CERTIFICATION UNDER
35 U.S.C. 122(b)(2)(B)(i)

Commissioner of Patents and Trademarks
Washington, D.C. 20231

Dear Sir:

I hereby certify that the invention disclosed in the attached application **has not and will not be** the subject of an application filed in another country, or under a multilateral agreement, that requires publication at eighteen months after filing. I hereby request that the attached application not be published under 35 U.S.C. 122(b).

Respectfully submitted,

Date: August 3, 2001
Customer No. 22186
Mendelsohn & Associates, P.C.
1515 Market Street, Suite 715
Philadelphia, Pennsylvania 19102

Ian M. Hughes
Ian M. Hughes
Registration No. 41,083
Attorney for Applicant
(215) 557-6659

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Certification Under 37 CFR 1.8

Date of Deposit August 3, 2001.

I hereby certify that this correspondence is being deposited in the United States Postal Service with sufficient postage as first class mail under 37 CFR 1.8 on the date indicated above and is addressed to the Commissioner of Patents and Trademarks, Washington, D.C. 20231.

Mary E. Caniz
(Name of person mailing)

Mary E. Caniz
(Signature of person mailing)

09922006-030301